

ABSTRACT OF THE DISCLOSURE

The invention aims at modifying SPUDT-type surface acoustic wave filters in such a way that the wideband filter can be produced with lower insertion loss and a small form factor without substantially enlarging layout. According to the invention, this is achieved by combining the following characteristics: a) the totality of fingers (231-233; 331-333) of each transducer (2; 3) forms a tapering structure and b) the widths and the positions of the fingers are chosen in such a way that the waves reflected on the fingers (231-233; 331-333) together with the waves regenerated by the corresponding source and load resistance (8; 9) result in an lengthening of the impulse response of the filter, which reduces form factor and/or bandwidth. The invention can be used in surface acoustic wave-based components such as wideband bandpass filters and delay lines.

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